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PREMIUMS

OFFERED BY THE

S O C I E T Y

FOR THE ENCOURAGEMENT OF

ARTS, MANUFACTURES

A N D

COMMERCE,

IN THE YEAR,

M D CCLXXXVII.

TO THE

PUBLICK.

Adelphi Buildings, April 11, 1787.

THE chief objects of the attention of the Society for the Encouragement of Arts. Manufactures and Commerce, in the application of their Rewards, are Ingenuity in the feveral branches of the Polite and Liberal Arts; useful Discoveries and Improvements in AGRICULTURE, Manufactures, Mechanicks, and CHEMISTRY, or the laying open any fuch to the Publick; and in general all fuch useful Inventions, Discoveries, or Improvements (though not mentioned in the Book of Premiums) as may appear to have a tendency to the advantage of Trade and Commerce; the Society therefore, in pursuance of their plan, propose to bestow the following Premiums:

Premiums

Premiums for Planting and Husbandry:

- 1. ACORNS. For fetting or fowing the greatest quantity of land, not less than ten acres, with acorns, between the first day of October, 1786, and the first of January, 1787; and for fencing and preferving the same effectually, in order to raise timber; the gold medal.
- 2. For the second greatest quantity of land, not less than five acres, set or sown with acorns, agreeably to the above conditions; the silver medal.

CERTIFICATES of the setting or sowing agreeably to the above conditions; and that there are not sewer than one thousand Plants on each acre, to be produced to the Society, on or before the first Tuesday in November 1787.

3. ACORNS. For fowing or fetting, between the first of October, 1787, and

and the first of April, 1788, the greatest quantity of strong land, not less than ten acres with acorns, and seeds or cuttings of other trees, and for the effectually fencing and preserving the same, in order to raise timber and underwood; the gold medal.

4. For the second greatest quantity of land, not less than five acres, sown or set agreeably to the above conditions; the silver medal.

CERTIFICATES of fetting orfowing agreeably to the above conditions, and that there are not fewer than three hundred young Oaks on each acre, to be delivered to the Society, on or before the first Tuesday in November, 1788.

5, 6. The fame premiums are extended one year further.

CERTIFICATES to be produced on of before the first Tuesday in November 1789.

The fame premiums are extended one year further.

CERTIFICATES to be produced on or before the first Tuesday in November 1790.

- 7. RAISING OAKS. To the person who shall raise the greatest number of oaks, not sewer than five thousand, either from young plants, or from acorns, in woods, parks, or forests, that have long been under timber, and effectually sence and preserve the same, in order to secure a succession of oak timber in this kingdom; the gold medal.
- 8. For the next greatest quantity, not fewer than three thousand; the silver medals

CERTIFICATES and accounts to be produced on or before the first Tuesday in January, 1788.

9, 10. The fame premiums are extended one year further.

CERTIFICATES to be produced on or before the first Tuesday in January, 1789.

11, 12. The same premiums are extended one year further.

CERTIFICATES to be produced on or before the first Tuesday in January, 1790.

- 13. CHESNUTS. For fetting or fowing the greatest quantity of land, not less than six acres, with Spanish Chesnuts, before the first day of May, 1787, and for effectually sencing and preserving the same, in order to raise timber; the gold medal.
- 14. For the second greatest quantity, not less than four acres; the silver medal.

15. For the third greatest quantity, not less than two acres; the silver medal.

CERTIFICATES of fetting or fowing agreeably to the above conditions (and that there are twelve hundred Spanish Chesnut plants, at least, on each acre) must be delivered to the Society on or before the first Tuesday in November, 1787.

- 16. CHESNUTS. For fowing or fetting between the first of October 1787, and the first of April 1788, the greatest quantity of dry loamy land, not less than fix acres, with a mixture of Spanish Chesnuts and the seeds or cuttings of other trees adapted to such soil, and for effectually sencing and preserving the same, in order to raise timber; the gold medal.
- 17. For the second greatest, quantity not less than four acres; the silver medal.

CERTIFICATES of fowing or fetting agreeably to the above conditions, and that there are not fewer than three hundred Chefnut plants on each acre, to be delivered to the Society, on or before the first Tuesday in November, 1788.

18, 19. The same premiums are extended one year further.

CERTIFICATES to be delivered on or before the first Tuesday in November 1789.

20, 21. The same premiums are extended ony ear further.

CERTIFICATES to be delivered on or before the first Tuesday in November 1790.

22. ELM. For planting the greatest number of the English Elm, not less than eight thousand, between the twenty-fourth

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of June, 1786, and the twenty-fourth of June, 1787, and for the effectually fencing and preserving the same, in order to raise timber; the gold medal.

- 23. For the fecond greatest number, not less than five thousand; the silver medal.
- 24. For the third greatest number, not less than four thousand; the silver medal.

CERTIFICATES of having planted agreeably to the above conditions, and specifying the distance of the trees, must be delivered to the Society, on or before the first Tuesday in November, 1737.

25, 26, 27. The fame premiums are extended one year further.

CERTIFICATES to be delivered on or before the first Tuesday in November, 1788. 28.

- 28. LARCH. For planting out, from the twenty-fourth of June, 1786, to the twenty-fourth of June, 1787, at a diftance not more than five feet, the greatest number of Larch-trees, not less than five thousand; the plants to be between two and four years old when planted out; and for effectually fencing and preserving the same, in order to raise timber; the gold medal.
 - 29. For the second greatest number, not less than three thousand; the silver medal.

CERTIFICATES of planting according to the above conditions, to be delivered on or before the last Tuesday in November, 1787.

30, 31. The like premiums will be given on the same conditions, for planting out Larch trees, between the twenty-fourth

fourth of June, 1787, and the twenty-fourth of June, 1788.

CERTIFICATES to be produced on or before the last Tuesday in November, 1788.

32. HUNTINGDON WILLOW. For the greatest number of acres, not less than three, planted in the year 1787, with Huntingdon Willows; the number of cuttings to be at least one thousand on each acre, properly fenced and secured; the gold medal.

CERTIFICATES to be produced on or before the last Tuesday in December, 1787.

33. ALDER. For the greatest number of acres, not less than six, planted in the year 1786, with Alders, to be at least one

AGRICULTURE. 263 one thousand on each acre, properly fenced and secured.

CERTIFICATES to be produced to the Society, on or before the last Tuesday in December, 1787, of the said planting, and that the trees were then growing on the land; the gold medal.

34. The fame premium is extended one year further.

CERTIFICATES to be produced on or before the last Tuesday in December, 1788.

35. UPLAND OR RED WILLOW. For the greatest number of acres, not less than three, planted before the end of April, 1787, with Upland or Red Willow, properly fenced and secured, the number of plants on each acre to be at least twelve hundred; the gold medal.

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CER-

CERTIFICATES to be produded on or before the last Tuesday in April, 1788.

It is well known that this species of Willow thrives well on dry sandy land.

36. The same premium is extended one year further.

CERTIFICATES to be produced on or before the last Tuesday in April, 1789.

- 37. ASH. For planting the greatest number of acres not less than six, in the year 1786, with Ash for timber; the plants to be at least two years old, properly secured and senced; the number of plants on each acre to be at least twelve hundred; the gold medal.
- 38. For the next greatest number of acres, not less than four; the filver medal.

CER-

CERTIFICATES to be delivered on or before the fecond Tuesdayin December, 1787.

39, 40. The fame premiums are extended one year further.

CERTIFICATES to be delivered on or before the fecond Tuesday in December, 1788.

- 41. ASH. For fowing or fetting in the year 1788, the greatest quantity of land, not less than fix acres with Ash for timber, intermixed with the seeds, cuttings or plants of such other trees as are adapted to the soil; the gold medal.
- *41. For the next greatest quantity not less than four acres; the silver medal.

CERTIFICATES of the fowing or fetting agreeably to the above conditions, and that there are not fewer than one hundred Ash plants on each acre; to be delivered to the Society on or before the last Tuesday in December 1789.

42. The same premium is extended one year further.

CERTIFICATES to be delivered on or before the last Tuesday in December, 1790.

43. MIXED TIMBER TREES. To the person who shall enclose and plant, or sow the greatest number of acres, not less than ten, with the best sorts of Forest Trees, for timber, between the first of October, 1784, and the first of May, 1786, and shall deliver to the Society an account of the methods used in making the plantations, and of the nature of the soil, togeher

ther with proper Certificates that the trees are then in a thriving condition on the land; the gold medal,

The Accounts and Certificates to be produced to the Society on or before the first Tuesday in November, 1788.

44. The fame premium is extended one year further.

The Accounts and Certificates to be produced on or before the first Tuesday in November, 1789.

45. The fame premium is extended one year further,

The Accounts and Certificates to be produced on or before the first Tuesday in November, 1790.

46. MULBERRY CUTTINGS. For raising the greatest number of white or black Mulberry Trees, for feeding Silk Worms, not less than three hundred, from cuttings in the year 1785, the gold medal.

CERTIFICATES of the raising and growth, with the manner of culture, and that the plants were growing in September, 1778, to be produced on or before the first Tuesday in November, 1788.

47. MULBERRY CUTTINGS. To the person who shall form in the year 1785, the largest plantation, not less than one acre of Mulberry Cuttings for the purpose of feeding Silk Worms; the gold medal.

CERTIFICATES of the quantity of land, and the method of culture; that the Mulberry

berry Plants are not more than three feet afunder, and that they were growing in the month of Septemper, 1788, to be produced on or before the first Tuesday in December, 1788.

It is proposed that this plantation be continually kept in a low state, to the intent that the gathering the leaves may always be within the reach of women and children.

- 48. MULBERRY CUTTINGS OR TREES. For planting the greatest number of white or black Mulberry Cuttings or Trees, not fewer than three hundred, in the year 1787, for the purpose of feeding Silk Worms; the gold medal.
- 49. For the second greatest quantity, not sewer than one hundred and fifty; the silver medal.

CERTIFICATES of fuch planting, with the manner of culture, and that the trees were growing in the month of July, 1789, to be produced to the Society on or before the first Tuesday in November, 1789.

- MULBERRY TREES IN HEDGE ROWS. To the person who shall plant in the year 1788, the greatest number, not sewer than one hundred layers of the black or white Mulberry, in Hedge Rows, at a distance not less than twelve seet from each other; ten pounds.
- 51. For thenext greatest number not fewer than fifty; five pounds.

CERTIFICATES of the number of plants, and that the trees were then in a growing state, to be delivered to the Society, on or before the first Tuesday in October, 1789.

*** The

** The Candidates for planting all kinds of trees, are to certify, that the respective plantations are properly fenced and secured, and particularly to state the condition the plants were in at the time of signing such Certificates.

Any information which the Candidates for the foregoing premiums may chuse to communicate, relative to the methods made use of in forming the plantations, or promoting the growth of the several trees, or any other observations that may have occurred on the subject, will be thankfully received.

posed to the weather. To the perfor who shall send the most satisfactory account, verified by experiments, to determine which of the following trees is of the greatest utility for timber or poles,

poles, for use when exposed to the weather: viz.

Larch, Black-Poplar,
Afh, Spanish-Chesnut,
Willow, Alder,
Lombardy-Poplar, Beech.
The gold medal.

The Accounts to be produced on or before the second Tuesday in December, 1787.

53. The fame premium is extended one year further.

The Accounts to be produced on or before the fecond Tuesday in December, 1788.

54. PRESERVING ACORNS. To the person who shall produce to the So-ciety

ciety the most effectual method of preventing Acorns when sown or planted for timber, being injured by Mice: the gold medal.

The Accounts verified by actual experiments, with proper Certificates that the methods made use of have been fully sufficient for the purpose, to be produced on or before the last Tuesday in November, 1787.

55. PRESERVING CHESNUTS, and SEEDS of other FOREST TREES. To the person who shall produce to the Society, the most effectual method of preventing Chesnuts, and the seeds of other Forest Trees, when sown or planted for Timber, being destroyed by Mice; the filver medal.

The Accounts verified by actual experiments, with proper Certificates that the methods made use of have been fully sufficient

ficient for the purpose; to be produced on or before the last Tuesday in November, 1787.

56. PLANTING BOGGY OR MO-RASSY SOILS. For an account of the best set of experiments sent by the planter, or his representative, to ascertain the comparative advantages of planting boggy or morassy soils, with White Poplar, Black Poplar, Lombardy Poplar, and Willow; the gold medal.

It is required that not less than half an acre be planted with each, and the plants to be not more than four feet as funder.

It is also required that the plantation stand fourteen years, at the end of which, to be all cut down and measured, or accurately measured standing; the Certificates of the measure and value, and that the whole is properly fenced and secured;

A G R I C U L T U R E. 275 to be produced on or before the first Tues-day in January, 1792.

N. B. Any information relating to the state of the plantation, if sent to the Society, between the time of planting and claiming the premium, will be thankfully received.

57. The fame premium is extended one year further.

CERTIFICATES to be produced on or before the first Tuesday in January, 1793.

58. The fame premium is extended. one year further:

CERTIFICATES to be produced on or before the first Tuesday in January, 1794.

59. The same premium is extended to the year 1796.

CERTIFICATES to be produced on or before the first Tuesday in January, 1797:

60. The fame premium is extended one year further.

CERTIFICATES to be produced on or before the first Tuesday in January, 1798.

for who shall ascertain from observation, and by experiment, the succession of the different Roots of Corn (distinguishing the times when such succession of roots takes place) particularly those which shoot out at or near the time the plants go into ear; shewing also from facts, the injury arising from the failure of those particular roots, and the most effectual means of preventing such missortune; the gold medal.

To be produced on or before the first Tuesday in January, 1788.

N. B. This

N. B. This premium is extended to Scotland and Ireland.

62. COMPARATIVE CULTURE OF WHEAT. For the best set of experiments on not less than six acres of land, to ascertain whether it is most advantageous to cultivate Wheat, by sowing it in the common broad-cast way, by drilling it in equi-distant rows, or by dibbling, hoeing the intervals; the gold medal.

It is required that the distance between the rows, may not exceed eleven inches, and that an account of the nature and condition of the land on which the experiments are made, together with an account of the produce of the Corn, be produced to the Society, on or before the first Tuesday in February, 1788.

\$ 3 63. COM-

63. COMPARATIVE CULTURE OF WHEAT. For the best set of experiments made on not less than eight acres, sour of which to be sown broadcast and sour drilled, to ascertain whether it is most advantageous to cultivate Wheat, by sowing it in the common broad-cast way, or by drilling it in equi-distant rows, hoeing the intervals; the gold medal.

It is required that an account of the nature and condition of the land on which the experiments are made, together with an account of the produce of the corn, be produced to the Society on or before the first Tuesday in February, 1788.

64. The same premium is extended one year further. The accounts to be produced to the Society on or before the first Tuesday in February, 1789.

65. COMPARATIVE CULTURE OF WHEAT. For the best set of experiments made on not less than eight acres of land, four of which to be sown broad-cast and sour dibbled, to ascertain whether it is most advantageous to cultivate Wheat, by sowing it in the common broad-cast way, or by dibbling it in equidistant rows, hoeing the intervals; the gold medal.

It is required that an account of the nature and condition of the land on which the experiments are made, together with an account of the produce of the corn, be produced to the Society on or before the first Tuesday in February, 1788.

66. The same premium is extended one year further. The accounts to be produced to the Society on or before the first Tuesday in February 1789.

S 4 67. BEANS

67. BEANS AND WHEAT. To the person who shall plant or drill between the first of December, 1785, and the first of March, 1786, the greatest quantity of land, not less than ten acres, with Beans, and shall sow the same land with Wheat in the same year, 1786; ten guineas.

It is required that an account of the fort and quantity of Beans, the time of planting or drilling, and of reaping or mowing them, the produce per acre threshed, the application of the straw, the expense of planting or drilling, hand or horse-hoeing, the distance of rows and the quality of the soil, together with Certificates of the number of acres, and that the land was actually sown with Wheat in the year 1786, to be produced on or before the first Tuesday in November, 1787.

- N. B. The Society have been informed that Beans may be drilled or planted for early as the month of December, from whence may be derived the advantage of an early harvest, in which case, the straw will be far more valuable than that from a later planting or drilling,
- 68. The same premium is extended one year further. The accounts to be produced on or before the first Tuesday in November, 1788.
- 69. TURNEPS. For the best account of experiments made on at least six acres of land, to determine the comparative advantages of the drill, or broad-cast method in the cultivation of Turneps; the gold medal.

The accounts to be delivered in, on or before the third Tuesday in April, 1788.

70. The

70. The same premium is extended one year further.

The accounts to be delivered on or before the third Tuesday in April, 1789.

71. GREEN VEGETABLE FOOD. For the best account confirmed by experiments, of the vegetable Food, (Cabbages and Turneps excepted) growing in the months of March and April, that will most encrease the milk in mares, cows, and ewes, at that season; provided such food can be cultivated at an expense that will admit of its being applied to the above purposes; the gold medal.

CERTIFICATES to be produced on or before the fecond Tuefday in November, 1787.

72. The same premium is extended one year further.

CERTIFICATES to be produced on or before the fecond Tuesday in November, 1788.

73 TURNEP-ROOTED CABBAGE. For raising and having duly cultivated Turnep-rooted Cabbage, in the year 1785, for the feeding cattle or sheep on the greatest number of acres, not less than ten, and giving an account of the soil, culture, time, and manner of feeding off, produce, and the effects on cattle or sheep fed with it; ten guineas.

74. For the next greatest number of acres, not less than five; five guineas.

CERTIFICATES of the quantity of Land, with the accounts, to be produced on or before the last Tuesday in October, 1787.

75. TURNEP-ROOTED CABBAGE. For raising, and having duly cultivated Turnep-

Turnep-rooted Cabbage, in the year 1786, for the feeding cattle or sheep, on the greatest number of acres, not less than ten, and giving an account of the soil, culture, time and manner of feeding off, produce, and the effects on cattle or sheep fed with it; the gold medal.

76. For the next greatest number of acres, not less than five; the silver medal.

CERTIFICATES of the quantity of land, with the accounts, to be produced on or before the last Tuesday in October, 1788.

77. POTATOES FOR FEEDING CATTLE AND SHEEP. To the perfon who shall in the year 1788, cultivate the greatest quantity of land, not less than four acres, with potatoes, for the sole purpose of feeding cattle and sheep, the gold medal, or twenty guineas.

CERTIFICATES with fatisfactory accounts of the expense and manner of cultivating the potatoes, and the application of them to the above purposes, and the success that has attended the use of them, to be delivered to the Society on or before the second Tuesday in November, 1789.

N.B. Should any Gentleman have already cultivated Potatoes for the purpofes mentioned in the above advertifement; any information from him on the fubject will be thankfully received by the Society.

78. CULTIVATING ROOTS AND HERBAGE FOR FEEDING SHEEP AND BLACK CATTLE. For the most satisfactory experiments made between Michaelmas, 1786, and the first of May, 1787, in order to ascertain which of the following

following plants can be cultivated and housed, or otherwise secured for winter fodder, to the greatest advantage, viz.

Turnep-rooted Cabbage. Carrots,
Turnep Cabbage, Parfneps,
Turneps, Potatoes.

The accounts to be produced on or before the first Tuesday in November, 1787; the gold medal.

It is required that the above roots be taken off the land by the last day of October, 1786; that a Crop of Wheat may be sown in the same ground, and the particulars of the sowing and planting, taking up, produce, preserving, and application to the feeding Sheep and Black Cattle, be specified. The comparative experiments must be made between two or more of any of the above mentioned plants, and not less than two acres be cultivated with each particular kind of plant.

N.B.

N.B. Great advantage will arise to the Farmer occupying land in the neighbour-hood of extensive commons, from the conveniency of keeping large flocks of sheep, and herds of cattle, if the difficulty of supporting them through the winter was obviated by a due knowledge of this practice.

79. The same premium is extended one year further.

CERTIFICATES to be produced on or before the first Tuesday in November, 1788.

80. STOCKS OF BEES. To the person who shall have in his possession, being his own property, the greatest number of Stocks of Bees, not sewer than thirty, and who shall in the most judicious manner provide for them plen-

ty of fuch vegetables as afford them honey and wax; the gold medal, or twenty pounds.

81. For the next greatest number, not fewer than twenty stocks, the silver medal, or ten pounds.

Proper Certificates of the number of Stocks, and that they have been in the poffession of the Claimant during the preceding summer, together with a particular account of the vegetables provided for their sustenance, and the manner in which they have been managed, to be produced to the Society on or before the first Tuesday in November, 1789.

82. CULTIVATING THE TRUE RHUBARB. For raising before the end of the year 1787, the greatest number of plants, not less than three hundred, of Rheum

Rheum Palmatum, or true Rhubarb; the gold medal.

83. For the next greatest quantity, not less than two hundred plants; the filver medal.

CERTIFICATES of the number of plants, that they stand at least four feet assumer, that they have been in a thriving state during the preceding summer, with an account of the soil, culture, and aspect, to be produced on or before the second Tuesday in February, 1788.

84, 85. The same premiums are extended one year further.

CERTIFICATES to be produced on or before the second Tuesday in February,

- 86. RHUBARB. For the greatest quantity of Rhubarb of British growth, not less than twenty pounds weight, equal to such as is commonly fold in the shops, under the name of Turkey, or Russia Rhubarb; five pounds of which to be produced as a sample, with Certisicates that the remainder is of equal goodness; and a particular account of the manner of culture and cure, on or before the first Tuesday in November, 1787; the gold medal.
- 87. For the next greatest quantity, not less than ten pounds weight; the filver medal.
- 88, 89. The same premiums are extended one year further. The samples and Certificates to be produced on or before the first Tuesday in November, 1788.

90. A SCERTAINING THE COM-**PARTS** OF ARABLE PONENT To the person who shall pro-LAND. duce to the Society the most satisfactory set of experiments, to ascertain the due proportion of the feveral component parts of Arable Land, in one or more counties in Great Britain, by an accurate analysis of it, and who having made a like analysis of some poor land, shall, by comparing the component parts of each, and thereby ascertaining the deficiencies in the poor foil, improve a quantity of it, not less than two acres, by the addition of fuch parts as the former experiments shall have discovered to be wanting therein, and therefore probably the cause of its sterility; the gold medal.

It is required that the manurings, ploughings, and crops of the improved land, be the fame after the improvement

as before, and that a minute account of the produce in each state; of the weather, and of the various influencing circumstances, together with the method made use of in analysing the soils, be produced, with proper certificates, and the chymical results of the analysis, which are to remain the property of the Society, on or before the last Tuesday in November, 1788.

It is expected that a quantity, not less than fix pounds, of the rich, of the poor, and of the improved soils, be produced with the Certificates.

N. B. Among the methods or proceffes made use of by Chymists, and called dry or meist, the latter only appears adapted to the ascertaining the respective proportions of the component parts of Arable earth.—Dr. Shaw, in his Chymical Lectures —Dr. Home, in his principles of Agri-

Agriculture. — Dr. George Fordyce, in his Elements of Agriculture, and Sir Torben Bergman, in his Differtation fur les Terres geoponiques, have treated of these subjects.

91. The fame premium is extended one year further.

The accounts to be produced on or before the last Tuesday in November, 1789.

92. The same premium is extended one year further.

The accounts to be produced on or before the last Tuesday in November, 1790.

93. The same premium is extended one year further.

The

The accounts to be produced on or before the last Tuesday in November, 1791.

94. The fame premium is extended one year further.

The accounts to be produced on or before the last Tuesday in November, 1792.

95. IMPROVING LAND LYING WASTE. For the best account of a method of improving any of the sollowing soils, being land lying waste or uncultivated, viz. Clay, Gravel, Sand, Chalk, Moor, or Peat-earth, and Bog; verified by experiments on not less than ten acres of land, to be produced on or before the second Tuesday in December, 1787; the gold medal for each.

96. For the next in merit, the filver medal.

The Soil, manner of improvement, expense, and product, are required to be fully explained.

97, 98. The fame premiums are extended one year further.

The accounts to be produced on or before the fecond Tuesday in December, 1788.

99, 100. The fame premiums are extended one year further.

The accounts to be produced on or before the fecond Tuesday in December, 1789.

for. MANURES. To the person who shall give the most satisfactory account, verified by accurate experiments, on what

T 4 foil

foil the application of Marl, Chalk Lime, or Clay feverally, as manures, be most beneficial; the gold medal.

It is required that each experiment be made on one acre, and that they be continued four years, the same kind of Grain being sown the same year on the several spots.

It is also required, that if different manures are compared, the experiments be made on similar soils, lying near each other.

An account of the nature of the foil, manure and the quantity laid on, with all expenses and crops to be delivered, with specimens of the soil and manure, on or before the first Tuesday in January, 1788.

one year further.

The

The accounts and specimens to be produced on or before the first Tuesday in January, 1789.

103. The fame premium is extended one year further.

The accounts and specimens to be produced on or before the first Tuesday in January, 1790.

tisfactory fet of experiments, to ascertain the comparative advantage of the following Manures, used as Top-Dressings, on Grass or Corn Land, viz. Soot, Coal-Ashes, Wood-Ashes, Lime, Night-Soil; the gold medal.

It is required that not less than half an acre of land be appropriated to each Manure, the soils similar, and lying near each other, and if the Manure be used on Corn

Corn Land, then it is required that the fame kind of grain be fown the fame year on each spot; the experiments to be continued not less than two years.

An account of the nature of the Soil, quantity, and expense of the Manure and Crops, with Certificates to be produced on or before the first 'Tuesday in December, 1787.

105. The same premium is extended one year further.

The account and Certificates to be produced on or before the first Tuesday in December, 1788.

106. COURSE OF CROPS ON STRONG LAND. For the most satisfactory account, verified by experiments, made on not less than five acres of Clay, or wet Loam, to ascertain the advantages of the so llowing course of crops, viz. First,

First, Beans drilled, or planted and hoed: Secondly, Wheat; the gold medal.

These experiments to be continued two courses, or four years.

CERTIFICATES with an account of the Soil, Culture, and quantity of Manure, if any, laid on, to be produced on or before the last Tuesday in March, 1788.

N.B. The success of this course of crops, much depending on the land being kept entirely clean, it is expected that each crop of the Beans be horse-hoed or hand-hoed, at least three times.

107. IMPROVING WASTE MOORS. For the improvement of the greatest number of acres of Waste Moor Land, not less than one hundred; the gold medal.

It is required that the land before improvement, be absolutely uncultivated,

in a great measure useless, not let to any tenant, and without any building upon it except cottages or huts. That in its improved state, it shall be enclosed, cultivated, and divided into sields, with buildings erected thereon, sufficient for the use and residence of a tenant.

CERTIFICATES of the number of acres, of the quality of the Moor so improved, of the mode and expense of the improvement: the state it is in as to the proportion of grass to arable; and the rent at which it is let; to be produced on or before the first Tuesday in February, 1788.

108. The fame premium is extended one year further.

CERTIFICATES to be produced on or before the first Tuesday in February 1789.

AGRICULTURE. 301.

109. The same premium is extended one year further.

CERTIFICATES to be produced on or before the first Tuesday in February, 1790.

SEA. To the person who shall produce to the Society, an account of the best method, verified by actual experiment, of gaining Land from the Sea, not less than twenty acres, on the coast of England or Wales; the gold medal.

CERTIFICATES of the quantity of Land, and that the experiments were begun after the first of January, 1782, to be produced to the Society on or before the first Tuesday in October, 1787.

N. B. The Society have been credibly informed, that land has been gained on the coast

coast of Holland, by fixing rows of whisps of straw upright in the fand, at about a foot distant from each other, or by fixing stakes at proper distances from each other and whatling straw bands between them.

111. The same premium is extended one year further.

CERTIFICATES to be produced on or before the first Tuesday in October 1788.

112. The same premium is extended one year further.

CERTIFICATES to be produced on or before the first Tuesday in October, 1789.

113. The same premium is extended one year further.

CERTIFICATES to be produced on or before the first Tuesday in October, 1790.

114. The

114. The same premium is extended one year further.

CERTIFICATES to be produced on or before the first Tuesday in October, 1791.

THE PURPOSE OF REAPING OR MOWING CORN. For inventing a Machine to answer the purpose of mowing or reaping Wheat, Rye, Barley, Oats, or Beans, by which it may be done more expeditiously and cheaper, than by any method now practised, provided it does not shed the Corn or Pulse, more than the methods in common practice, and that it lays the straw in such manner as may be easily gathered up for binding; ten guineas.

The Machine with Certificates that at least three acres have been cut by it, to

be produced to the Society on or before the fecond Tuesday in December, 1787.

Simplicity and cheapness in the construction, will be considered as principal parts of its merit.

To the person who shall discover to the Society the most efficacious method of curing the disorder called the Scab in Sheep, verified by repeated trials; the silver medal, or ten guineas.

CERTIFICATES of different cures with a description of the disease, and a particular account of the method or recipe, and the manner of using it, to be delivered to the Society, on or before the second Tuesday in January, 1788.

OF THE COCKCHAFER. To the person

person who shall discover to the Society an effectual method, verified by repeated and satisfactory trials, of destroying the Grub of the Cockchaser, so destructive to the roots of all sorts of Corn, Peas, Beans, and Turneps; the gold medal.

The Accounts to be produced on or before the first Tuesday in January, 1788.

Premiums.

Premiums for Discoveries and Improvements in Chemistry, Dyeing and Mineralogy.

118. KELP. For the greatest quantity, not less than four tons of Kelp, containing a much larger proportion of Alkaline Salt than any Kelp now made for sale; twenty pounds.

A specimen of one hundred weight, to be produced on or before the first Tuesday in January, 1788; together with Certificates that the whole quantity is equal to the specimen, and made in Great-Britain or Ireland, of Sea Weed.

quantity of merchantable Barilla, not less than half a Ton, made from Spanish Kali, raised in Great-Britain; the gold medal.

A fample of not less than twenty-eight pounds, with a Certificate that half a ton has has been made; to be produced on or before the first Tuesday in January, 1788.

120. DISSERTATION ON ALKALI. To the person who shall compose the best differtation on the nature and qualities of vegetable and mineral Alkali, containing an account of their analogy to each other, and of the most essential properties wherein they differ; together with any useful remarks that may have escaped the notice of chemical Writers, explaining also the means of seperating them from each other, but more particularly from fea falt, or other neutral falts which are frequently found united with them; fo that when purified, they may be advantageously used in such manufactures wherein the admixture of neutral falts is detrimenal: Lastly, an investigation into the nature of their composition and the method of decompounding them into their U 2

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their constituent principles; the gold medal, or fifty pounds.

The differtation to be produced to the Society on or before the first Tuesday in March, 1788.

VEGETABLES. For the best method of preserving the seeds of plants in a state sit for vegetation, a longer time than has hitherto been practised, such method being superior to any known to the publick, and verified by sufficient trial; to be communicated to the Society on or before the first Tuesday in December, 1787; the gold medal.

the best account, ascertained by proper experiments, of a method of destroying or burning the smoke of sires belonging

to steam Engines, Furnaces employed in calcining or smelting metals, or other large works, in order to prevent annoyance to the neighbourhood; to be produced on or before the first Tuesday in January, 1788; the gold medal.

To the person who shall discover to the Society, the best method of so reducing the inflamable quality of Resin, as to adapt it to the purposes of making Candles sit for common use, at a price much inferior to that of Candles made of Tallow only; the gold medal, or thirty guineas.

Six pounds at least of the Candles so prepared, with an account of the process, to be delivered to the Society on or before the sirst Tuesday in December, 1787.

U 3 124. SUB-

310 CHEMISTRY.

PARATION OF YEAST. For discovering to the Society an effectual Substitute for Yeast, or preparation of Yeast, which after being kept two months, shall be fit for fermenting liquors, and raising bread; the gold medal, or twenty pounds.

Specimens of the Substitute, or of the preparation of Yeast, sufficient for trials, together with a paper sealed up, and containing an account of the composition of the Substitute, or method of preparing the Yeast, to be produced on or before the last Tuesday in November, 1787.

any person who shall discover to the Society, a method verified by actual experiments, of increasing the quantity, or the force of Steam, in Steam Engines, with less suel than is usually employed, provided that in general the whole amount

of the expenses in using Steam Engines may be considerably lessened; the gold medal.

To be communicated to the Society on or before the first Tuesday in January, 1788.

N. B. As it is well known there are methods of preventing the ebullition of liquids, by the addition of particular matters in the boiling, it is submitted to the consideration of the ingenious, whether by the addition of some matters, or by some mechanical operations, the boiling and evaporation may not be increased.

126. The same premium is extended one year further.

To be communicated to the Society on or before the first Tuesday in January, 1789.

U 4 127. ME-

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127. METHOD OF COMPARING SWEETS. To the person who shall discover to the Society an Index or practical method of comparing, measuring and ascertaining the degrees of sweetness in saccharine substances; the gold medal:

To be produced on or before the first Tuesday in January, 1788.

128. PREVENTING THE DRY ROT IN TIMBER. To the person who shall discover to the Society, the cause of the Dry Rot in Timber, and disclose a certain method of prevention, superior to any hitherto known; the gold medal.

The accounts of the cause and method of prevention, confirmed by repeated experiments, to be produced to the Society on or before the second Tuesday in December, 1787.

129. The same premium is extended one year further.

The accounts to be produced on or before the fecond Tuesday in December, 1788.

130. BRONZE FOR COPPER MEDALS. To the person who shall discover to the Society a method of bronzing Copper Medals, equal to that practised in France; the gold medal.

To be produced to the Society on or before the fecond Tuesday in December, 1787.

131. FINE BAR IRON. To the person, in England, or Wales, who shall make in the year, 1788, the greatest quantity of bar Iron, not less than ten tons, with Coak from Coak Pigs, equal in quality to the best Iron imported from Sweden

314 CHEMISTRY.

Sweden or Russia, and as fit for converting into Steel; the gold medal.

Samples, not less than one hundred weight, with Certificates that the whole quantity is of equal quality, to be produced to the Society on or before the first Tuesday in January, 1789.

Premiums

POLITE ARTS 3'5

Premiums for promoting the Polite Arts.

132. HONORARY PREMIUMS FOR DRAWINGS. For the left drawing of any kind, made with crayons, chalk, black lead, pen, Indian ink, or bifter, by young gentlemen under the age of twenty-one, sons or grandsons of Peers or Peeresses, in their own right, of Great-Britain or Ireland; to be produced on or before the first Tuesday in March, 1788; the honorary medal of the Society in gold.

133. The same in silver, for the second in merit.

134, 135? The fame premiums will be given on the like conditions, to young ladies, daughters or grand daughters of Peers or Peeresses, in their own right, of Great-Britain or Ireland.

136. HO-

136. HONORARY PREMIUMS FOR DRAWINGS. For the best drawings of any kind made with crayons, chalk, black lead, pen, Indian ink, or bister; by young gentlemen under the age of twenty-one.

To be produced on or before the first Tuesday in March, 1788; the gold medal.

- 137. For the next in merit; the filver medal.
- 138, 139. The fame premiums will be given for drawings by young ladies.
- N. B. Persons professing any branch of the Polite Arts, or any business dependant on the arts of design, or the sons or daughters of such persons, will not be admitted candidates in these classes.

The following premium is offered in conformity to the Will of the late John Stock, of Hampstead, Esq.

140. SCULPTURE. For the best model of the bust of his Royal Highness the Prince of Wales, as large as the life; to be produced on or before the third Tuesday in November, 1787; a silver medallion, with the following engraved inscription: The premium given by the Society for the Encouragement of Arts, Manufactures and Commerce, in conformity to the Will of John Stock, of Hampstead, Esq.

A cast from the model to which the premium is adjudged is to remain the property of the Society.

141. DRAWINGS OF OUTLINES.

For the best Outline after an original group or cast in plaster of human figures,

by

by persons of either sex under the age of sixteen, the principal sigure not less than twelve inches; to be produced on or before the last Tuesday in November, 1787; the greater silver pallet.

- 142. For the next in merit; the leffer filver pallet.
- N. B. These drawings are to be made on paper with chalk, black lead, Indian ink, or bister; and the originals either to be produced to the Society or to be referred to for their examination.
- 143. DRAWINGS OF MACHINES. For the best perspective drawing, by persons of either sex, under the age of twenty-one years, of the model of a Crane, by Mr Bunce, in the Society's Repository, shewing particularly the method of stopping the wheel by the centrifugal force of the ball, the greater silver pallet; to be

POLITE ARTS. 319 be produced on or before the third Tucf-

N. B. Such candidates as propose to make drawings for this premium, will be admitted by the Register any day (Sundays or Wednesdays excepted) between the hours of ten and two.

day in November, 1787.

The drawing to which the premium is adjudged, is to remain the property of the Society.

- 144. DRAWINGS OF LAND-SCAPES. For the best drawing of Landscapes after nature, by persons of either sex under twenty-one years of age, to be produced on or before the third Tuesday in November, 1787; the greater solver pallet.
- 145. For the next in merit; the lesser filver pallet.

Each candidate must mention, on the front of his drawing, from whence he took his view; and the drawings must be made with chalk, pen, Indian ink, or bister.

- 146. HISTORICAL DRAWINGS. For the best Historical Drawing, being an original composition of five or more human figures; the height of the principal figure not less than eight inches. To be made with crayons, chalk, black lead, pen, Indian ink, or bister, and to be produced on or before the third Tuesday in November, 1787; the gold pallet.
- 147. For the next in merit; the greater filver pallet.
- 148. ENGRAVING IN THE LINE MANNER. To the Engraver who shall produce to the Society, the best engraved Plate executed by himself of the dimensions

fionsof not less than twenty inches by fixteen inches, containing not fewer than three human figures, the principal figure not less than twelve inches high; to be engraved in the *Line Manner*, from any old or modern picture, the plate to be published by the Engraver.

The regular progress of the work from the first proof of the etching, to the finished impression of the Plate, to be produced to the Society on or before the first Tuesday in February, 1789; the gold pallet. and twenty-five guineas.

149. The fame premium is extended one year further:

The impressions to be delivered on or before the first Tuesday in February, 1790.

150. SURVEYS OF COUNTIES.

To the person who in the year 1791, shall

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compleat and publish an accurate survey of any one County in England or Wales, on a scale of not less than one inch to a mile, for which rewards have not already been given by the Society; the gold medal or fifty pounds.

CERTIFICATES of the accuracy of the furvey, and that it was begun after the first of June, 1787, together with the Map, to be produced on or before the last Tuesday in January, 1792.

The Map to which the premium shall be adjudged to remain the property of the Society.

N. B. The Society are already in poffession of Surveys of the following Counties, viz. Devonshire, Derbyshire, Somerfetshire, Northumberland, Suffolk, Leicestershire, Cumberland, and Lancashire.

CONDITIONS.

No person who has gained the first premium in any class, will be admitted a candidate in a class of an inferior age; and no candidate shall receive more than one premium in one year; nor will they, who for two successive years, shall gain the first premium in one class, be ever again admitted as candidates in that class.

No person shall ever be admitted a candidate in any class, in which he has three times obtained the whole of the first premium.

No candidate shall fend in more than one performance in any one class.

All the claims which are produced each year, before the Committee of Polite Arts (to which premiums or bounties are adjudged) are to remain with the Society fix weeks after the determination, unless

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the

324 POLITE ARTS.

the candidates, for particular reasons, do apply to have the performances returned.

No claim for a premium in the Polite Arts will be admitted, that has obtained, or has been produced in order to obtain a premium, reward or gratification from any other Society, or any academy or school.

All performances that obtain premiums in the Polite Arts, must be begun after the publication of such premiums.

Purposely to encourage real merit, and to prevent any attempts to impose on the Society, by producing drawings which shall have been made or retouched by any other person than the candidate, the Society is resolved upon all occasions, with respect to the successful candidates in classes 141 to 146 inclusive, to prove their abilities, by requiring a specimen made under the inspection of the committee of Polite Arts, in every instance where such proof can be obtained.

Premiums

MANUFACTURES. 32

Premiums for encouraging and improving Manufactures.

151. SILK. For the greatest quantity of merchantable Silk, not less than five pounds, produced by any one person in England, in the year 1787; the gold medal.

Specimens of the Silk, not less than one pound, with Certificates that the whole is of equal quality, and produced in England; to be delivered to the Society on or before the first Tuesday in January, 1788.

- 152. For the second greatest quantity, not less than two pounds; the silver medal.
- 153. MACHINE FOR CARDING SILK. For the best machine, superior X 3

326 MANUFACTURES.

to any now in use, for carding waste Silk equally well as by hand; to be produced together with a specimen of the Cardings, on or before the first Tuesday in November, 1787; the gold medal, or twenty pounds.

154. WEAVING FISHING NETS. For the best specimen of plain netting, for Fishing Nets, not less than twenty yards long, and six feet deep, woven in a loom, or other machine; to be produced to the Society on or before the second Tuesday in January, 1788; twenty guineas.

N. B. It is expected that the specimen produced, be made in such a manner, as to be cut and joined without more loss than usual, that it have such a plain selvage as the common sishing nets, and that the knot be equally fast with those in

in nets in common use, and as easily repaired.

PLATES. To the person who shall establish in England or Wales, a manufacture of Paper, superior to any hitherto made, proper for receiving impressions from Mezzotinto, and other engraved Copper-plates, and produce to the Society, one ream of the dimensions of French Colombier, on or before the first Tuesday in November, 1787; the gold medal.

CERTIFICATES must be produced to the satisfaction of the Society, that the Paper was made in England or Wales.

156. A strong CLOTH being prepared in SWEDEN, from HOP STALKS, or BINDS, the Society will give the gold medal, or twenty pounds, as a premium for the best and greatest quantity of such X4 Cloth,

328 MANUFACTURES.

Cloth, not less than twenty-five yards, made in England, and produced to the Society, on or before the second Tuesday in December, 1787.

One pound at least of the Thread to be produced with the claim.

157. The same premium is extended one year further.

The Cloth and Thread 10 be produced to the Society on or before the second Tuesday in December, 1788.

158. The fame premium is extended one year further.

The Cloth and Thread to be produced to the Society on or before the second Tuesday in December, 1789.

159. PAPER FROM VEGETABLE SUBSTANCES NOT PREVIOUSLY MADE

MANUFACTURES. 32

INTO CLOTH. To the person in England or Wales, who shall make the greatest quantity, not less than ten reams of the best and most useful paper, from vegetable substances that have not been previously made into cloth; ten guineas.

CERTIFICATES of the making such paper, and one ream of the paper to be produced on or before the first Tuesday in November, 1788.

N. B. The Society are in possession of two volumes, containing a great variety of specimens of paper made from raw vegetables, viz. Thistles, Potatoe-Haum, Poplar, Hop Binds, &c. which volumes may be inspected by any person on application to the Register.

Premiums for Inventions in Mechanicks.

To the perfon who shall invent and produce to the Society, a cheap and portable Transit instrument, which may easily be converted into a Zenith Sector, capable of being accurately and expeditiously adjusted for the purposes of finding the latitudes and longitudes of places, and superior to any portable Transit instrument now in use; the gold medal, or twenty guineas.

To be produced on or before the last Tuesday in January, 1788.

- 160. GUN HARPOON. For every Whale taken by means of the Gun Harpoon; to the person who first strikes such fish therewith; two guineas.
- N. B. Proper Certificates of the taking fuch Whales in the year 1787, figned by

by the master or by the mate, when the claim is made by the master; to be delivered to the Society on or before the last Tuesday in December, 1787.

161. GUN FOR THROWING HARPOONS. To the person who shall produce to the Society, the best improvement in the construction of a gun for throwing Harpoons, so as to render it more manageable than those at present in use; the silver medal, or ten guineas.

The Gun to be produced to the Society on or before the first Tuesday in December, 1787.

162. HARPOON TO BE THROWN BY A GUN. To the person who shall produce to the Society, the best improvement in the construction of a Harpoon to be thrown by a gun; the Harpoon to

be so contrived, that it may strike and hold the fish with more certainty and greater effect than any hitherto made use of; the silver medal, or ten guineas.

The Harpoon to be produced to the Society on or before the first Tuesday in December, 1787.

163. CROSS BOW, OR OTHER INSTRUMENT FOR THROWING HARPOONS. To the person who shall produce to the Society, the best constructed Cross Bow, or other Instrument to be used in the whale sishery for throwing Harpoons, with more advantage and greater effect than the gun, or any other instrument now in use; the silver medal, or ten guineas.

To be delivered to the Society on or before the first Tuesday in December, 1787.

164. CROSS

164. CROSS BOW HARPOON. For every Whale taken by means of a Harpoon, shot from a Cross Bow; to the person who first strikes such fish therewith, two guineas.

Proper Certificates of the taking such whales in the year 1787, signed by the master, or by the mate, when the claim is made by the master; to be delivered to the Society on or before the last Tuesday in December, 1787.

165. MACHINE FOR TRANS-PORTING TIMBER. To the person who shall produce to the Society a model of the best, most simple, and cheap Machine or carriage for transporting Timber, or other heavy Materials; on soft or clayey roads, at the least expense; to be sent in or before the last Tuesday in November, 1787; twenty guineas.

- 166. IMPROVEMENT OF THE HAND VENTILATOR. To the perfon who shall produce to the Society, on or before the last Tuesday in February, 1788, a portable Ventilator, to be worked by hand, better adapted and more efficacious for extracting foul air from goals, prisons and ships, than any now known or in use; the gold medal, or twenty guineas.
- 167. CRANES FOR WHARFS. To the person who shall invent and produce to the Society, a model of a Crane for Wharfs, on a scale of not less than one inch to a foot, the construction to be such, that the effect of the power may be varied according to the weight, to be raised, in a manner different from any now known or in use, yet more simple and effectual; the gold medal; or twenty guineas.

To be produced on or before the first Tuesday in February, 1788.

N. B. The model should neither be of the walking wheel nor capstan kind.

Although it is well known that the effect of the wind on horizontal Sails is greatly inferior to that on those which move in a vertical direction, yet as there are some circumstances and situations where it would be most convenient to erect an horizontal Mill, the Society do therefore offer the following premium.

168. HORIZONTAL WINDMILL. To the person who shall invent and produce to the Society, a model of an horizonal Windmill on a Scale of not less than one inch to a foot, superior to those already in use; the gold medal, or twenty guineas.

To be delivered to the Society, on or before the first Tuesday in February, 1788.

169. HAND MILL. To the person who shall produce to the Society a better constructed Hand Mill for general purposes than any now known or in use; the silver medal, or ten guineas.

To be delivered to the Society on before the last Tuesday in December, 1787.

170. MACHINE FOR RAISING COALS. ORE, &c. &c. To the person who shall invent a machine for raising Coals, Ore, &c. from mines which shall produce the effect at a less expense than those already known or in use; the gold medal, or twenty guineas.

A model of the machine made on a scale of not less than one inch to a foot; to be produced to the Society on or before the second Tuesday in February, 1788.

171. SLUICES

171. SLUICES FOR SCOWERING CHANNELS. To the person who shall invent and produce to the Society. a model of a Sluice or Water Gate, constructed in such a manner as to be with ease and expedition, so disposed as to scour a Channel, increasing in width equal at least to an angle of forty-five degrees; twenty guineas.

To be produced on or before the fecond Tuesday in February, 1788.

172. MACHINE FOR CLEARING RIVERS. For the best model of a machine superior to any now in use, for clearing Navigable Rivers from Weeds, at the least expense; ten guineas.

To be produced to the Society on or before the first Tuesday in February, 1788.

173. SECURING BUILDINGS FROM FIRE. To the person who shall produce to the Society, an effectual method of preventing accidental Fires in houses or other buildings; twenty guineas.

To be produced on or before the fecond Tuesday in February, 1788.

Premiums

Premiums offered for the Advantage of the British Colonies.

173. NUTMEGS. For the greatest quantity of merchantable nutmegs, not less than five pounds weight, being the growth of his majesty's dominions in the West Indies, and equal to those imported from the islands of the East Indies; the gold medal; or one hundred pounds.

Satisfactory Certificates from the governor, lieutenant-governor, president of the council, or speaker of the house of assembly, of the place of growth, with an account of the number of trees, their age, nearly the quantity of fruit on each tree, and the manner of culture, to be produced on or before the first Tuesday in December, 1788.

Y 2 174. The

340 COLONIES AND TRADE:

174. The same premium is extended? one year further.

CERTIFICATES to be produced on or before the fecond Tuesday in December, 1789.

N. B. Any person desirous of information on the subject of Nutmeg Trees, may obtain it from a memorial on the sructification of the Nutmeg, and the surest method of cultivating it to advantage; by the King's Gardener, at the Isle of Bourbon, inserted in Mr. Maty's Review, for August, 1783.

175, 176. BREAD FRUIT TREE. To the person or persons who, between the first of June, and the sisteenth of August, 1787, shall bring into the port of London the greatest number of plants of one or both species of the Bread Fruit Tree, in a growing state, not less than three of either species; the gold medal.

177, 178. The fame premiums are extended one year further; the plants to be brought into the port of London, between the first of June, and the sisteenth of August, 1788.

N: B. The plants which obtain the premiums are to be the property of the Society, to be disposed of according to their discretion.

THE SOCIETY being informed that a confiderable quantity of oil can be obtained from the feed of Cotton, and that after the expression of the oil, the remaining cake will afford a strong and hearty food for cattle; and likewise, that the apparatus for the operation can be applied to the mill for sugar canes, and worked in the rainy season, at a moderate expense, have resolved, for the foregoing reasons, that the procuring oil from the seed of Cotton, is a proper object of

242 COLONIES AND TRADE.

a premium, confidered as an encouragement for planters to extend the cultivation of Cotton, an article effentially requisite to encrease the manufacture of that commodity in this country.

The Society therefore offer as follows:

179. OIL FROM COTTON SEED. To the planter in any of the British Islands of the West Indies, who shall express oil from the seed of Cotton, and make from the remaining seed, hard and dry cakes, as food for cattle; the gold medal.

CERTIFICATES that not less than one ton of the oil has been expressed, and five hundred weight of the cakes obtained, to be produced to the Society, with two gallons of the oil, and two dozen of the cakes, together with a full account

COLONIES AND TRADE. 343 of the process, on or before the last Tuesday in November, 1787.

- 180. For the next greatest quantity not less than half a ton of oil, and two hundred weight of the cakes; the silver medal.
- 181, 182. The fame premiums are extended one year further.

CERTIFICATES and famples, to be produced on or before the last Tuesday in November, 1788.

183. SPIRIT FROM THE PULP OF THE COFFEE BERRY. To the Planter in any of the British Islands in the West Indies, who shall distil the greatest quantity of Spirit, from the Pulp of the Cossee Berry, not less than thirty gallons, and produce to the Society one gallon of the Spirit, together with an ac-

Y 4 count

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count of the process used in the making it; the gold medal.

184. For the next greatest quantity not less than fifteen gallons; the filver medal.

CERTIFICATES figned by the governor, lieutenant-governor, or fome persons of known credit in the island, to be delivered to the Society, on or before the first Tuesday in January, 1788.

185. SENNA. To the person who shall import into the port of London, in the year 1787, the greatest quantity of Senna, not less than two hundred weight, the growth of any of the British Islands in the West Indies, and equal to the Alexandrian Senna, now used for medicinal purposes; the gold medal.

CERTIFICATES of the growth and method of culture, to be produced to the Society,

Society, on or before the first Tuesday in February, 1788.

186. The same premium is extended one year further.

CERTIFICATES to be produced on or before the first Tuesday in February, 1789.

187. The same premium is extended one year further.

CERTIFICATES to be produced on or before the first Tuesday in February, 1790.

188. KALI FOR BARILLA. To the person who shall cultivate in the Bahama Islands, or any other part of his Majesty's Dominions in the West Indies, in the year 1788, the greatest quantity of land, not less than five acres, with Spanish Kali, sit for the purpose of making Barilla; the gold medal.

189. For

346 COLONIES AND TRADE.

189. For the next greatest quantity, not less than three acres; the silver medal.

CERTIFICATES figned by the governor, lieutenant-governor, or other chief magistrate, of the quantity of land so cultivated, and of the state of the plants at the time of signing such Certificates, to be delivered to the Society on or before the second Tuesday in November, 1789.

190. The same premium is extended one year further.

CERTIFICATES to be delivered on or before the fecond Tuesday in November, 1790.

Society's Office, Adelphi, May 24, 1787.

Ordered,

THAT THE SEVERAL CANDIDATES AND CLAIMANTS TO WHOM THE SO-CIETY SHALL ADJUDGE PREMIUMS OR Bounties, DO ATTEND AT THE So-CIETY'S OFFICE IN THE ADELPHI, ON THE LAST TUESDAY IN MAY, 1788, AT TWELVE O'CLOCK AT NOON, TO RECEIVE THE SAME; THAT DAY BE-ING APPOINTED BY THE SOCIETY FOR THE DISTRIBUTION OF THEIR RE-WARDS: AND BEFORE THAT TIME. NO PREMIUM OR BOUNTY WILL DELIVERED, EXCEPTING TO WHO ARE OUT OF THE KINGDOM, OR PREVENTED BY UNAVOIDABLE ACCI-DENTS.

IN CASES WHERE PERSONAL ATTENDANCE CANNOT BE GIVEN, DEPUTIES MAY BE SUBSTITUTED TO RECEIVE THE REWARDS.

GENERAL

Notwithstanding the Society reserve to themselves the power of giving, in all cases, such part only of any premium as the performance shall be adjudged to deserve, or of withholding the whole, if there be no merit; yet the Candidates may be assured, the Society will always judge liberally of their several claims.

It is required, that the matters for which premiums are offered, be delivered in without names or any intimation to whom they belong; that each particular thing be marked in what manner each claimant thinks fit, fuch claimant fending with it a paper fealed up, having on the outfide a corresponding mark, and on the inside, the claimaint's name and address.

No papers shall be opened, but such as shall gain premiums, unless where it appears to the Society absolutely necessary for the determination of the claim; all the rest shall be returned unopened, with the matters to which they belong, if inquired after by their marks within two years; after which time, if not demanded, they shall be publickly burnt, unopened, at some meeting of the Society.

All models of machines, which obtain premiums or bounties, shall be the property of the Society.

All the premiums of this Society are defigned for that part of Great Britain, called England, the dominion of Wales, and the town of Berwick upon Tweed, unless expressly mentioned to the contrary.

The claims shall be determined as soon as possible after the delivery of the specimens.

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No person shall receive any premium, bounty or encouragement, from the Society, for any matter for which he has obtained, or proposes to obtain a patent.

A candidate for a premium, or a person applying for a bounty, being detected in any disingenuous method to impose on the Society, shall forfeit such premium or bounty, and be deemed incapable of obtaining any for the suture.

The performances which each year obtain premiums or bounties, are to remain with the Society until the end of May, except as mentioned in the conditions annexed to the premiums offered for promoting the Polite Arts.

No member of this Society shall be a candidate for, or entitled to receive any premium, bounty, or reward whatsoever, except the honorary medal of the Society.

Where

Where Certificates are required to be produced in claim of premiums, they should be expressed as nearly as possible in the words of the respective advertisements, and should not be from the candidate, (solely) but from some other person, or persons, who have a positive knowledge of the facts certified.

Where premiums or bounties are obtained, in consequence of specimens produced, the Society mean to retain such part of those specimens as they may judge necessary, making a reasonable allowance for the same.

No candidate shall be present at any meetings of the Society or Committees, or admitted at the Society's rooms, after they have delivered in their claims, until such claims are adjudged, unless summoned by the committee.

N. B. Any information or advice that may forward the defigns of this Society for the public good, will be received thankfully, and duly confidered, if communicated by letter, addressed to the Society, and directed to Mr. More, the Secretary, at the Society's office, in the Adelphi Buildings, London.

*** In case any person should be inclinable to leave a sum of money to this Society, by will, the following form is offered for that purpose:

Item. I give and bequeath unto A.B. and C.D. the sum of upon condition and to the intent, that they or one

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one of them, do pay the same to the Collector for the time being, of a Society in London, who now call themselves the Society for the Encouragement of Arts, Manufactures and Commerce; which said sum of I will and desire may be paid out of my personal estate, and applied towards the carrying on the laudable designs of the Society.

By order of the Society,

SAMUEL MORE, Secretary.

ERRATA.

Page 11 line 1. for next, read firft.

- 39. 6. for if you Society will, read if your Society will.
- 108. last line after fair, read water.
- 182. 2,3. for proportinably, read proportionably.
- 289. at the end, add 1789.
- 323. 16. for horizonal, read horizontal.
- 382. 10. before Smith, add *